



NH Department of Education

Bureau of Career Development

Title: Drafting and Design Technology/Technician, General.

CIP#: 151301

A program that prepares individuals to generally apply technical skills to create working drawings and computer simulations for a variety of applications. Includes instruction in specification interpretation, dimensioning techniques, drafting calculations, material estimation, technical communications, computer applications, and interpersonal communications.

Potential pathway focuses beyond general drafting:

Draftsman
Architect
Engineer

Careers

Students in Drafting learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs. CTE classes in this cluster will introduce you to a variety of interesting careers including:

Drafter

Drafter

- Architectural
- Mechanical
- Electrical
- Construction
- Electro/Mechanical

Designer

- Interior Design
- Industrial Design
- Packaging Designer
- Furniture Design
- Product Design
- Business Owner/Entrepreneur
- Landscape Designer

Architecture

Architect

- Architectural Engineering Technician
- Estimator

- Home/Building Inspector
- Landscape Architect

Engineering

Engineer

- Mechanical
- Manufacturing
- Chemical
- Electrical
- Civil, etc.
- Biomedical
- Aerospace
- Tooling
- Quality/Inspection
- Applications
- Field
- Test
- Landscaping
- Mechanical Engineering Technician
- Manufacturing Engineering Technician

Common Competencies

Upon completion of their selected pathway program, all NH CTE students will:

- Use correct terminology, vocabulary and appropriate language to communicate effectively in the workplace
- Select and safely use appropriate tools, supplies, and equipment for a specific task or set of tasks.
- Employ effective time and project management strategies to complete work efficiently and proficiently.
- Apply math concepts, including measurement, operations, and higher mathematics to relevant applications and specific tasks.
- Demonstrate awareness strategies to safely work in a variety of workspaces and locations.

Pathway Competencies:

Upon completion of the general drafting pathway, students will achieve competency in five areas.

Each student will:

- **Career & Personal Development**
 - Explore careers within the cluster and develop individual career documents.
- **Drawings**
 - Demonstrate and apply the principles & practices specific to creating and setting up proper technical drawings.
- **CADD**
 - Demonstrate and apply the tools and techniques associated with the use of computer aided design software to create technical drawings & prototypes.
- **Design Process**
 - Demonstrate and apply the tools and techniques associated with creative thinking & problem solving. The understanding & ability to develop a new Idea or product through the use of the design process.
- **Prototyping and Presentation**
 - Demonstrate and apply the tools and techniques used to create Prototypes, working models & presentations, through the use of computer software, in person presentation, digital presentations, and new technologies including but not limited to 3D printing, laser cutting, solid modeling, VR etc.